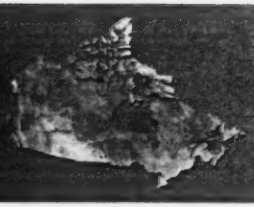

Canadian Natural Gas

›› Monthly Market Update

January 2010

›› Oil and Gas Policy, Analysis and Regulatory Affairs Division
Petroleum Resources Branch
Energy Sector

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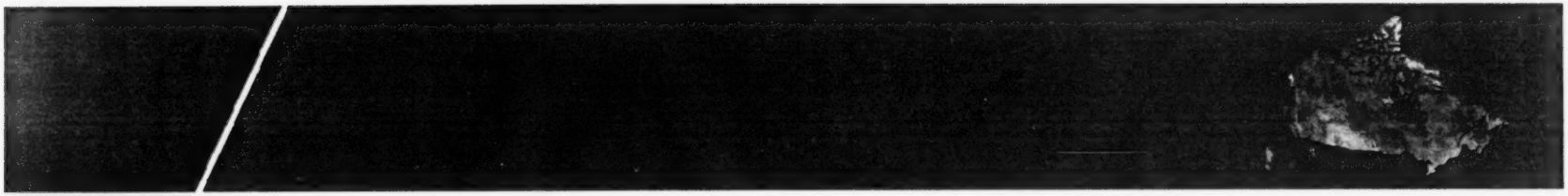

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Foreword

The Canadian Natural Gas: Monthly Market Update is a monthly analytical paper prepared by the Petroleum Resources Branch of Natural Resources Canada. The report provides the most recently available data on natural gas prices and related market fundamentals.

Please direct any comments or questions to Laura Cervoni at (613) 992-1023, or by email at laura.cervoni@nrcan.gc.ca

Executive Summary

Canadian natural gas prices continued to hover around $5/GJ. The gas bubble of 2009 is being drawn down and the natural gas market has begun to rebalance itself as evidenced by the recent rise in natural gas prices.

A key element in the rebalancing of the market was the significant declines in natural gas drilling in 2009. In 2009, drilling in Canada was down nearly 60 percent compared to 2008. Although drilling in January 2010 is still down over 50% compared to January 2009, drilling has increased by nearly 140% in the beginning of 2010, compared to December 2009.

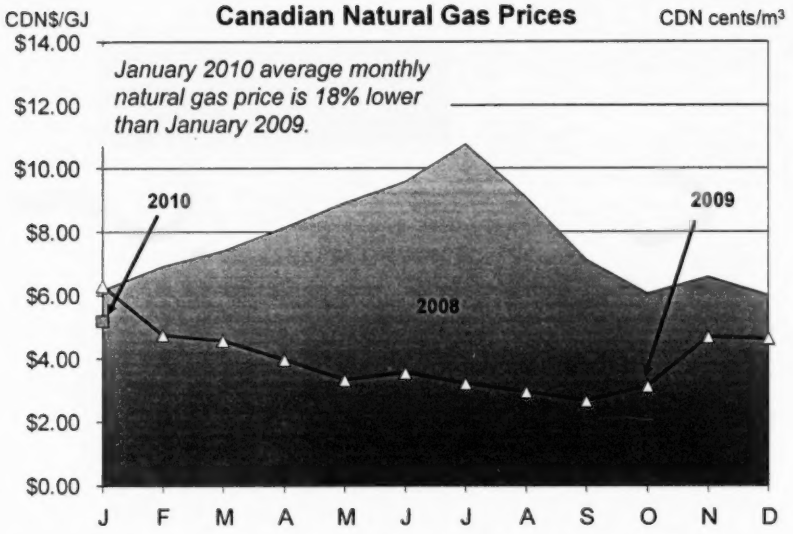
The story closing out 2009 were the record levels of natural gas storage in North America. As of January 2010, natural gas storage levels in Canada have dropped by almost 20% and are closer to the 5-year maximum. In the U.S., storage levels have dropped even further as a result of the cold weather and significant snow fall.

Natural Gas Market Fundamental	Value	Percentage Change	
		Month 10 vs. Month 09	Current Month vs. Previous Month
Prices, CAN $/GJ (Jan-10)	5.16	-18%	+12%
Heating Degree Days (Jan-10)	707	-16%	-1%
Production, Bcf (Nov-09)	416	-6%	+3%
Sales, Bcf (Nov-09)	215	-7%	+20%
Exports, Bcf (Nov-09)	256	-12%	+7%
Imports, Bcf (Nov-09)	64	+7%	+49%
Storage, Bcf (Jan-10)	499	+14%	-18%
Drilling, wells (Jan-10)	343	-58%	+139%

Note: GJ: Gigajoule; Bcf: Billion Cubic Feet

Sources:
- *Crude Oil and Natural Gas (Preliminary)*, Statistics Canada
- *Natural Gas Transportation and Distribution, 55-002*, Statistics Canada
- *Supply and Disposition of Crude Oil and Natural Gas, 26-006*, Statistics Canada
- *Drilling Highlights*, Daily Oil Bulletin website: www.dailyoilbulletin.com
- Canadian Natural Gas Focus, GLJ Energy Publications Inc.
- *Natural Gas Storage Survey*, Canadian Enerdata Ltd.
- *Natural Gas Export Statistics*, National Energy Board website: www.neb-one.gc.ca
- Canadian Gas Association, website: www.cga.ca

Figure 1

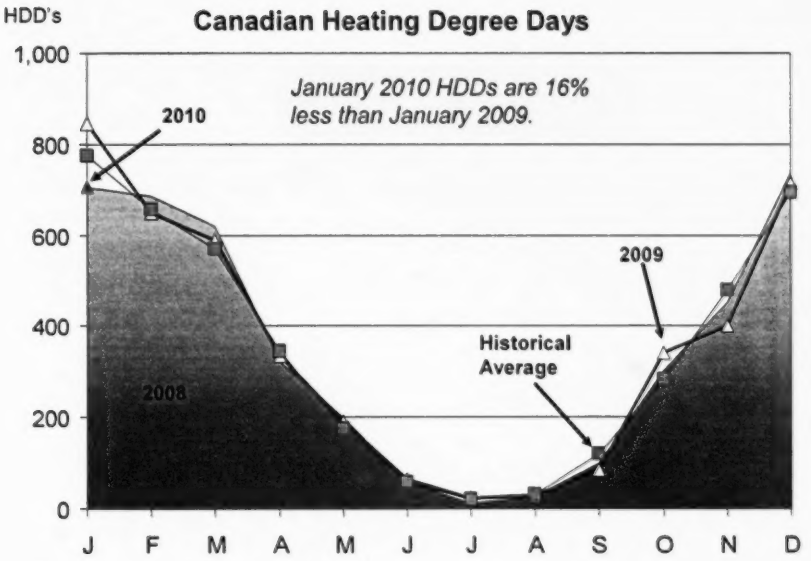


Source: GLJ Energy Publications **Note:** Canadian price is the Alberta price at the AECO hub.

Figure 1 illustrates the price of natural gas at the major Canadian pricing point – the Intra-Alberta market, a.k.a. AECO . The price is for gas delivered under a 30-day contract. The Intra-Alberta market is formed by gas delivered to pipelines in Alberta. Gas changes hands via Nova Inventory Transfers (NIT), exchanges at the AECO storage hub, or sales facilitated by the Natural Gas Exchange (NGX). This is a commodity price – a wholesale price in the producing area. Consumer (or "burner tip") prices will also include pipeline transmission and distribution costs, which vary across Canada. Natural gas is commonly measured in gigajoules (GJ) or cubic metres. A gigajoule is an energy unit, which equates to about 27 cubic metres of natural gas.

AECO natural gas prices averaged CDN $5.16/GJ in January 2010, 12% higher than the previous month and 18% lower than January 2009.

Figure 2



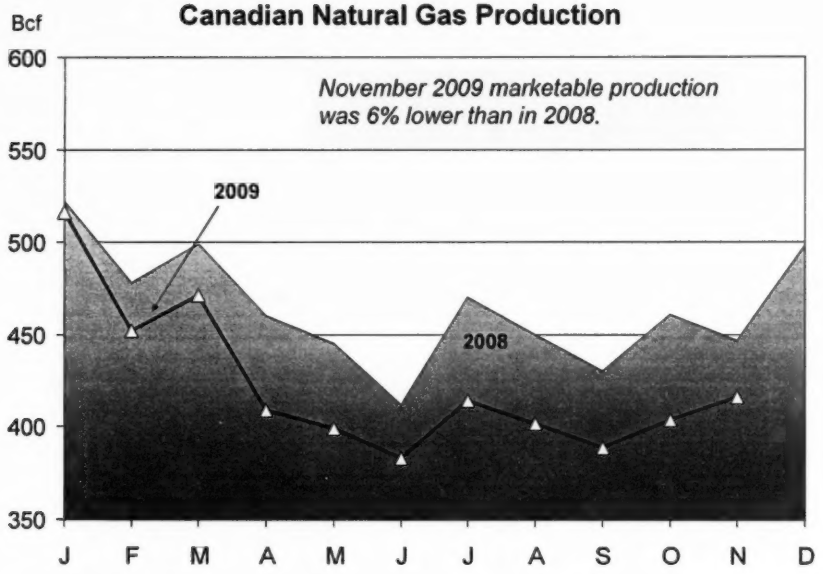
Source: Canadian Gas Association, NRCan

Figure 2 shows Canadian heating degree days (HDDs), which are a measure of how cold it is. The more HDDs in any season, the greater is natural gas demand for space heating. If a winter is unusually cold, demand for space heating will respond accordingly and natural gas prices will tend to be stronger. However, during a mild winter, natural gas demand for space heating will be weaker, which will tend to moderate prices.

In January 2010, there were 707 HDDs, 16% less than January 2009, and 1% less than the previous month. On average, January 2010 had 9% less HDDs than normal.

Figure 3

Canadian Natural Gas Production



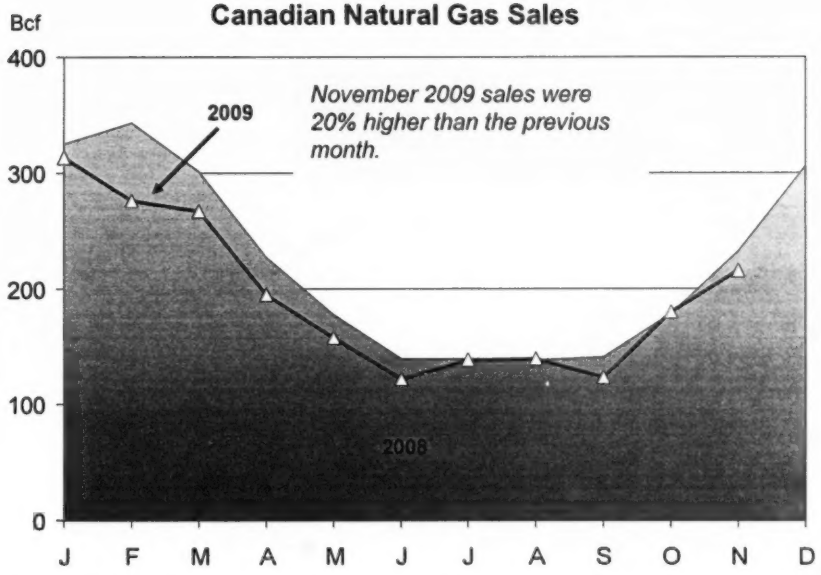
Source: Statistics Canada **Note:** Most recent month is a preliminary figure.

Figure 3 shows marketable natural gas production in Canada. Marketable natural gas is the gas available for consumption after processing and excludes producer or plant uses.

Marketable natural gas production for November 2009 was 416 Bcf, 6% lower than 2008.

Figure 4

Canadian Natural Gas Sales



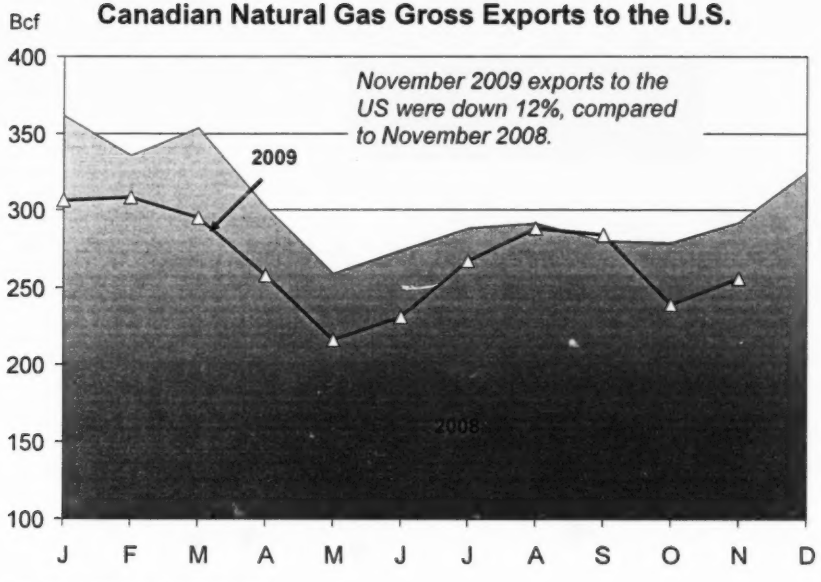
Source: Statistics Canada **Note:** Most recent month is a preliminary figure.

Figure 4 illustrates total Canadian natural gas sales. Sales include all natural gas sold to residential and commercial users (for space and water heating, cooking, etc), industries and electricity generating units in Canada. The totals do not include consumption by the natural gas industry itself (e.g., pipeline compressor fuel).

Natural gas sales to Canadian consumers in November 2009 were 215 Bcf, 7% lower than November 2008.

Figure 5

Canadian Natural Gas Gross Exports to the U.S.



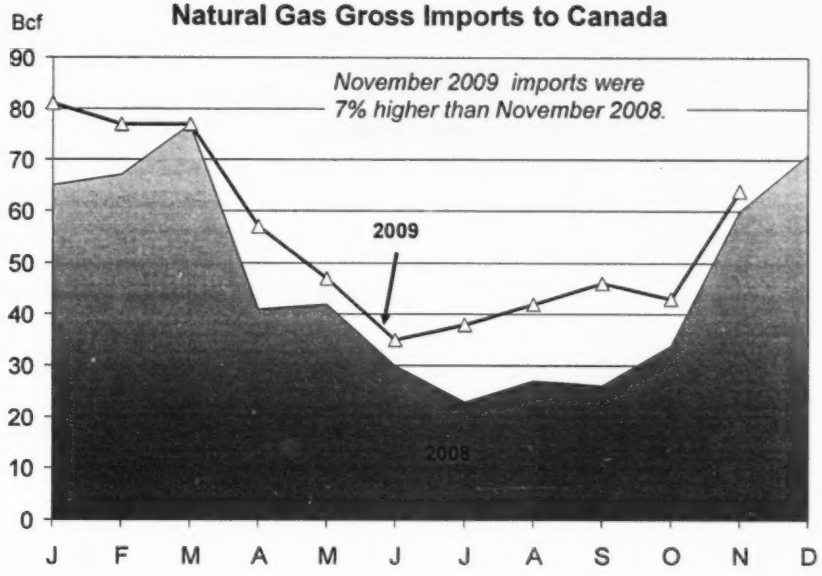
Source: National Energy Board

Figure 5 illustrates natural gas exports to the U.S. Canadian natural gas requirements are met mostly by domestic sources, as Canada produces natural gas in excess of what is required for domestic consumption. In comparison, the U.S. consumes more natural gas than it produces, therefore natural gas imports are required to make up the difference. Typically, Canada exports between 50 and 60 per cent of its gas production.

In November 2009, natural gas exports to the U.S. were 256 Bcf, 12% lower than November 2008.

Figure 6

Natural Gas Gross Imports to Canada



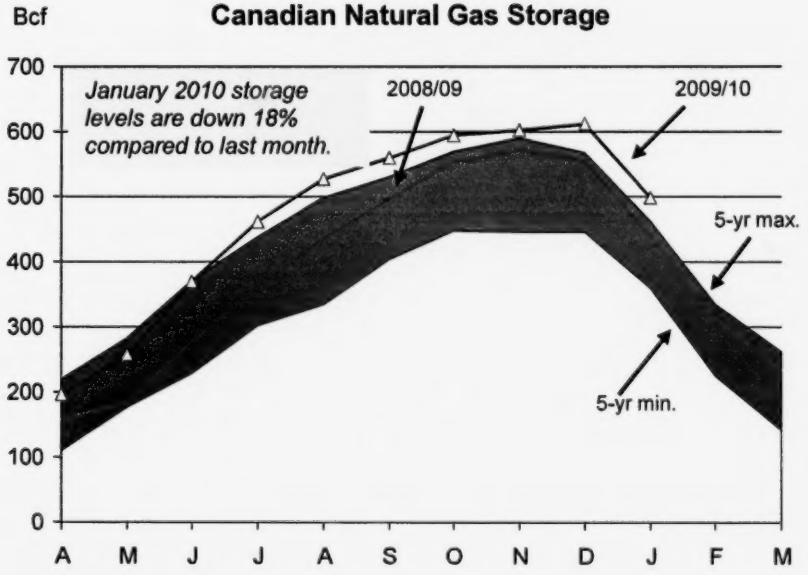
Source: National Energy Board

Figure 6 illustrates natural gas imports to Canada. Most natural gas is imported into Canada through major import points in southern Ontario. Imports into southern Ontario will likely rise in the future, as the province purchases more gas from the rest of North America due to flat production in the Western Canadian Sedimentary Basin. Presently, import volumes are significantly less than export volumes, and Canada remains a net exporter of natural gas.

In November 2009, natural gas imports to Canada were 64 Bcf, 7% higher than November 2008.

Figure 7

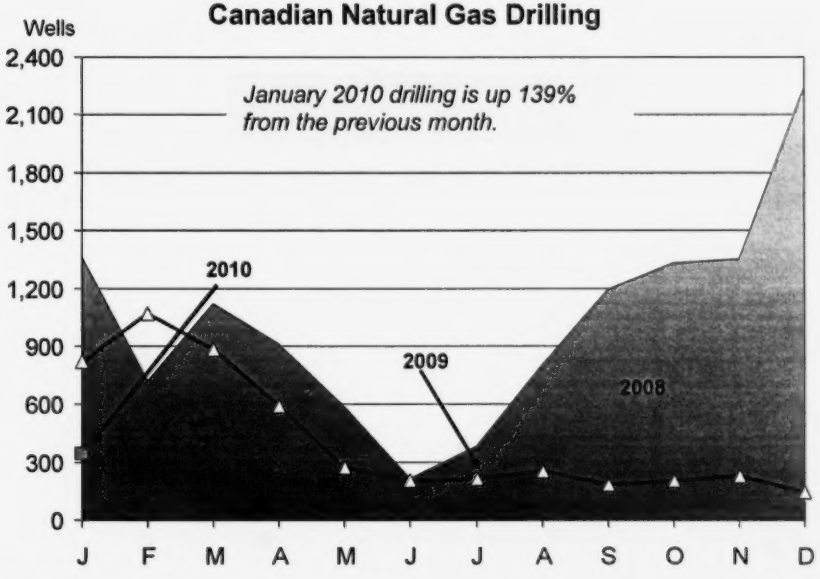
Canadian Natural Gas Storage



Source: Canadian Enerdata

Figure 8

Canadian Natural Gas Drilling



Source: Daily Oil Bulletin

Figure 7 illustrates natural gas storage levels in Canada. The amount of gas in storage generally follows a seasonal pattern. In the summer, when natural gas demand is low, gas is injected into storage. Storage volumes peak in the fall. In winter, volumes are drawn down, reaching a low point in the spring.

Canadian natural gas storage inventories decreased by 112 Bcf during the month of January 2010 compared to December 2009. Storage levels in January 2010 were 499 Bcf, 14% higher than the year prior.

Figure 8 depicts the number of natural gas well completions in Canada. There is a time-lag between drilling a gas well and starting production, due to the work necessary to connect the new well to the pipeline grid. Drilling is therefore a good indicator of future natural gas supply.

There were 343 natural gas wells drilled in January 2010, an increase of 139% from December 2009 and a decrease of 58% from January 2009.